Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of the claims in the application.

Listing of Claims:

1. (currently amended) A coil-on-tube heat exchanger having a center tube for a first liquid flow, the heat exchanger comprising:

a plurality of channels for a second liquid flow, the ~~coil tubes~~ plurality of channels helically wrapped in a parallel relationship along the length of the center tube, each of the plurality of ~~coil tubes~~ channels being in contact with the center tube and extending substantially along the same length of the center tube such that each of the plurality of channels only completes a single wrapping of the center tube, and each of the plurality of channels is arranged such that there is minimum spacing between each of the plurality of channels.

2. (original) The heat exchanger of claim 1 wherein the first liquid flow and the second liquid flow are in opposite directions, so as to provide a counter-flow heat exchanger.

3. (currently amended) The heat exchanger of claim 1 wherein each of the plurality of ~~coil tubes~~channels has an inlet end, the inlet ends of each of the plurality of channels being co-located.

4. (currently amended) The heat exchanger of claim 1 wherein each of the plurality of ~~coil tubes~~channels has an outlet end, the outlet ends of each of the plurality of channels being co-located.

5. (previously presented) The heat exchanger of claim 1 wherein the plurality of channels extend substantially along the entire length of the center tube.

6. (canceled)

7. (withdrawn) The heat exchanger of claim 1 wherein the plurality of channels forms a first helix, the heat exchanger further comprising a second plurality of channels for a third liquid flow, the second plurality of channels helically wrapped in a parallel relationship along the length of the center tube to form a second helix, each of the second plurality of channels being in contact with the center tube and extending substantially along the same length of the center tube, the second helix extending along a different length of the center tube than the first helix.

8. (withdrawn) The heat exchanger of claim 7 wherein the first helix and the second helix extend along substantially the entire length of the center tube.

9. (previously presented) The heat exchanger of claim 1 wherein each of the plurality of channels has a substantially similar cross-sectional profile.

10. (previously presented) The heat exchanger of claim 1 wherein each of the plurality of channels has a substantially rectangular cross-sectional profile.

11. (previously presented) The heat exchanger of claim 1 wherein each of the plurality of channels has a substantially similar cross-sectional area.

12. (withdrawn) The heat exchanger of claim 1 further comprising an inlet header for splitting flow to the plurality of channels at an inlet end of the helix.

13. (withdrawn) The heat exchanges of claim 12 wherein the header splits incoming liquid flow into a plurality of parallel flows for travel along a substantially similar path around the helix in the plurality of channels.

14. (withdrawn) The heat exchanger of claim 1 further comprising an outlet header for mixing flow from the plurality of channels at an outlet end of the helix.

15. (canceled)

16. (canceled)

17. (previously presented) The heat exchanger of claim 1 further comprising a plurality of anchors for anchoring the plurality of channels to the center tube.

18. (canceled)

19. (canceled)

20. (canceled)

21. (previously presented) The heat exchanger of claim 1 wherein at least some of the plurality of channels are provided as a plurality of coil tubes.

22. (previously presented) The heat exchanger of claim 1 wherein the plurality of channels are provided as a plurality of coil tubes.

23. (new) Use of the heat exchanger of claim 1 for the exchange of heat from the first liquid flow to the second liquid flow, wherein the first liquid flow is a waste water flow.

24. (new) Use of a coil-on-tube heat exchanger for the exchange of heat from a waste water flow to a second liquid flow, wherein the heat exchanger comprises a center tube for the waste water flow; and a plurality of channels for a second liquid flow, the plurality of channels helically wrapped in a parallel relationship along the length of the center tube, each of the plurality of channels being in contact with the center tube and extending substantially along the same length of the center tube.

25. (new) The use according to claim 24 wherein at least some of the plurality of channels are provided as a plurality of coil tubes.

26. (new) The use according to claim 24 wherein the plurality of channels are provided as a plurality of coil tubes.